



James P. Kiernan, P.E.
Project Manager

**Chevron Environmental
Management Company**
6001 Bollinger Canyon Road
Room C2102
San Ramon, CA 94583
Tel (925) 842-3220
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June 7, 2017

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Unocal No. 5484 (351812)
Well Destruction Report
18950 Lake Chabot Road, Castro Valley, California
Fuel Leak Case No.: RO0000352
GeoTracker Global ID #T0600101453

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

The information in this report is accurate to the best of my knowledge. This report was prepared by Arcadis, upon whose assistance and advice I have relied.

Sincerely,

A handwritten signature in blue ink, appearing to be 'J. Kiernan', written over a horizontal line.

James P. Kiernan, P.E.
Project Manager

Attachment: Well Destruction Report by Arcadis

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Arcadis U.S., Inc.
1100 Olive Way
Suite 800
Seattle
Washington 98101
Tel 206 325 5254
Fax 206 325 8218
www.arcadis.com

Subject:

Well Destruction Report

Unocal Station No. 5484
18950 Lake Chabot Road
Castro Valley, California
ACDEH Case #RO0000352

Environment

Date:

June 5, 2017

Dear Mr. Nowell:

Contact:

Samuel Miles

On behalf of Chevron Environmental Management Company's (CEMC's) affiliate, Union Oil Company of California ("Union Oil"), Arcadis U.S., Inc. (Arcadis) has prepared this *Well Destruction Report* for Unocal Station No. 5484 located at 18950 Lake Chabot Road in Castro Valley, California (the site; Figures 1 and 2). The State Water Resources Control Board (SWRCB) approved site closure and well destruction activities in their closure order WQ 2016-0087 dated October 7, 2016 (Attachment 1). Arcadis destroyed all remaining wells associated with the site in compliance with Alameda County Public Works Agency (ACPWA) well destruction permit requirements (Attachment 2). As discussed, the two remaining soil vapor probes were mistakenly not destroyed during the initial event; thus, the submission of this report was delayed.

Phone:

206.726.4720

Email:

Samuel.Miles@arcadis.com

Our ref:

B0035135.1812

SCOPE OF WORK

On March 29, 2017, Arcadis personnel supervised Cascade Drilling, L.P. (Cascade) of West Sacramento, California, destroy the following remaining monitoring wells at the site:

- MW-2, MW-5, MW-6 and MW-7

On April 20, 2017, Arcadis personnel supervised Cascade destroy the following remaining soil vapor wells at the site:

- SV-1 and SV-2

The approximate locations of the wells are shown on Figure 2. Well construction details and each well associated destruction method is summarized in Table 1.

PRE-FIELD ACTIVITIES

The tasks described below were completed prior to commencing field activities associated with the above referenced scope of work.

Site Specific Health and Safety Plan

As required by the Occupational Health and Safety Administration (OSHA) Standard “Hazardous Waste Operations and Emergency Response” guidelines (29 Code of Federal Regulations Section 1910.120), and by California Occupational Health and Safety Administration (Cal-OSHA) “Hazardous Waste Operations and Emergency Response” guidelines (California Code of Regulations Title 8, Section 5192), Arcadis prepared a health and safety plan (HASP) prior to commencing fieldwork. Field staff and contractors reviewed the HASP before beginning field operations at the site.

Permitting

Applicable well destruction permits were obtained from the ACPWA prior to commencing field activities. All well destruction field activities were coordinated with a ACPWA inspector.

FIELD ACTIVITIES

Underground Utility Locating

On March 27 and April 20, 2017, Arcadis used a private utility locator, Ground Penetrating Radar Systems, prior to conducting subsurface work at the site. In addition, Underground Service Alert (USA) was notified at least 72 hours before commencing evasive operations (i.e. drilling, etc.) to identify public utilities in the vicinity of the proposed well destruction locations.

Well Destruction Activities

Pressure Grouting and Removing the Top 5 feet of Casing

Four groundwater monitoring wells (MW-2, MW-5, MW-6, and MW-7) were destroyed by the following methods:

Prior to destruction, and under the supervision of an ACPWA inspector, the total depth and depth-to-water of each well was measured using a water level meter. The total depth measured for each well was compared to the well boring log to confirm that the well depth was consistent with the constructed total depth and the well casing was free of obstructions.

Each well vault was removed and a neat cement grout mixture was added to the top of each well using a tremie set at the bottom of each monitoring well.

An airtight fitting was placed onto the top of the casing and pressurized air was injected into each well casing to force the grout mixture into the filter pack and surrounding formation. Pursuant to the ACPWA inspector requirements, pressure was applied at 25 pounds per square inch (psi) for at least 5 minutes on all well locations. Additional grout was added as necessary and the process was repeated until the casing was full, and approved by the ACPWA inspector. Copies of the Well Completion Reports are included as Attachment 3.

Following pressure grouting activities, each well casing was cut at a depth of approximately 5 feet below ground surface (ft. bgs). The area was then backfilled to just below the surface with No. 3 sand and completed with material to match the existing surface (e.g. asphalt, concrete, etc.).

Hand Auger

Two soil vapor wells (SV-1 and SV-2) were destroyed by the following methods:

Each well vault was removed, and the well over-drilled with a hand auger and the soil vapor probe was removed. Following over-drilling, each soil vapor well location was backfilled to just below the surface with grout and completed with material to match the existing surface (e.g. asphalt, concrete, etc.).

Waste Generation and Removal

Waste generated during drilling operations were containerized in Department of Transportation (DOT)-approved 55-gallon drums and temporarily stored on site pending characterization. A total of 2 soil drums were removed from the site by Belshire Environmental on April 4 and April 25, 2017 and disposed of at the Soil Safe facility located in Adelanto, California. Copies of the waste manifests are included as Attachment 4.

CONCLUSIONS

All remaining site monitoring wells (MW-2, MW-5, MW-6 and MW-7) and soil vapor wells (SV-1 and SV-2) were destroyed in accordance with ACPWA permit requirements during these events. No waste, debris, or other investigation and remediation derived materials remain at the site. ARCADIS requests the SWRCB issue a Low-Threat Underground Storage Tank Case Closure for the site following its review and acceptance of this report describing well destruction activities.

If you have any questions or comments regarding the contents of this report, please contact Samuel Miles at 206.726.4720 or by e-mail at Samuel.Miles@arcadis.com.

Sincerely,

Arcadis U.S., Inc.



Samuel Miles
Project Manager



Katherine Brandt, P.G.
Senior Geologist



Copies:

Geotracker Database

Mr. James Kiernan, CEMC (electronic)

Mr. Ed Ralston, Phillips 66 (electronic)

Abdi Fugfugosh and Shukri Noor, Property Owners (electronic)

Tables

- 1 Well Construction Details and Destruction Method Summary

Figures

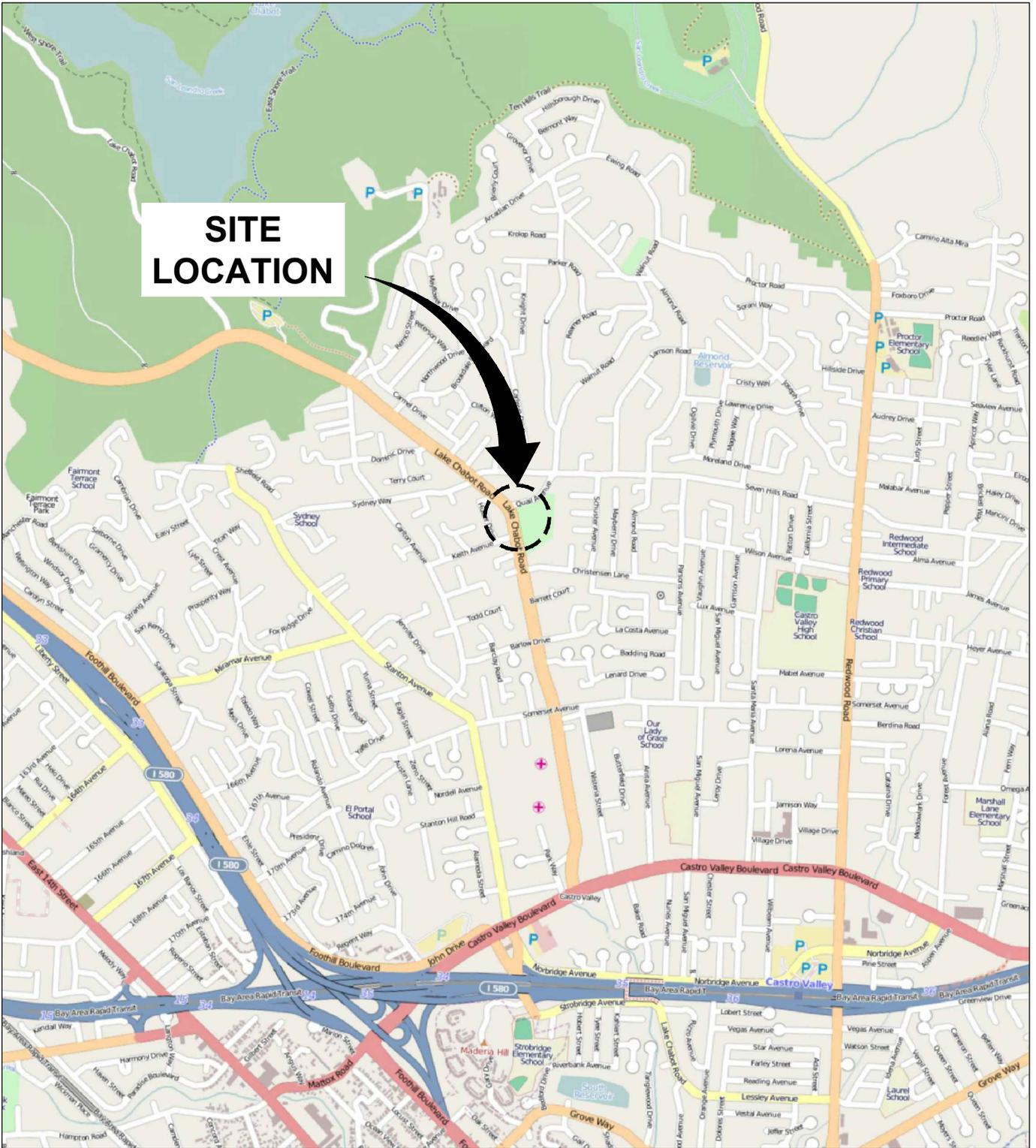
- 1 Site Location Map
- 2 Site Plan

Attachments

- 1 SWRCB Closure Order
- 2 Alameda County Public Works Agency Well Destruction Permit
3. Cascade Drilling Well Completion Reports
4. Waste Manifests

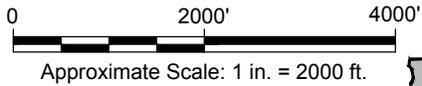
Table 1: Well Construction Details and Destruction Method Summary
Unocal Service Station No. 5484 (351812)

Well I.D.	Well		Screen			Destroyed Date	Destruction Method
	Boring Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	Length (feet)		
Monitoring Wells							
MW-2	19.5	2	4	19	15	3/29/2017	Pressure grout and remove the top 5' of the well column
MW-5	24	4	9	24	15	3/29/2017	Pressure grout and remove the top 5' of the well column
MW-6	29	4	7	27	20	3/29/2017	Pressure grout and remove the top 5' of the well column
MW-7	19.8	2	4.8	19.8	15	3/29/2017	Pressure grout and remove the top 5' of the well column
Soil Vapor Wells							
SV-1	6.5	3	4.25	4.75	0.5	4/20/2017	Hand auger
SV-2	5	3	4.25	4.75	0.5	4/20/2017	Hand auger



**SITE
LOCATION**

REFERENCE: AECOM



UNOCAL SERVICE STATION #5484 (351812)
 18950 LAKE CHABOT ROAD
 CASTRO VALLEY, CALIFORNIA
WELL DESTRUCTION REPORT

SITE LOCATION MAP

 Design & Consultancy for natural and built assets	FIGURE 1
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Attachment 1
SWRCB Closure Order



STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2016-0087 – UST

In the Matter of Underground Storage Tank Case Closure

**Pursuant to Health and Safety Code Section 25299.39.2 and the Low Threat
Underground Storage Tank Case Closure Policy**

BY THE EXECUTIVE DIRECTOR:¹

Pursuant to Health and Safety Code section 25299.39.2, the Manager of the Underground Storage Tank Cleanup Fund (Fund) recommends closure of the underground storage tank (UST) case at the site listed below.² The name of the Fund claimant, the Fund claim number, the site name and the applicable site address are as follows:

**Union Oil Company of California
Claim No. 6627
Unocal #5484
18950 Lake Chabot Road, Castro Valley**

Alameda County Environmental Health Department

I. STATUTORY AND PROCEDURAL BACKGROUND

Section 25299.39.2 directs the Fund manager to review the case history of claims that have been active for five years or more (five-year review), unless there is an objection from the UST owner or operator. This section further authorizes the Fund Manager to make recommendations to the State Water Resources Control Board (State Water Board) for closure of a five-year-review case if the UST owner or operator approves. In response to a recommendation by the Fund Manager, the State Water Board, or in certain cases the State Water Board Executive Director, may close a case or require the closure of a UST case. Closure of a UST case is appropriate where the corrective action ensures the protection of human health, safety, and the environment and where the corrective action is consistent with:

¹ State Water Board Resolution No. 2012-0061 delegates to the Executive Director the authority to close or require the closure of any UST case if the case meets the criteria found in the State Water Board's Low Threat Underground Storage Tank Case Closure Policy adopted by State Water Board Resolution No. 2012-0016.

² Unless otherwise noted, all references are to the Health and Safety Code.

- 1) Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations;
- 2) Any applicable waste discharge requirements or other orders issued pursuant to Division 7 of the Water Code; 3) All applicable state policies for water quality control; and 4) All applicable water quality control plans.

The Fund Manager has completed a five-year review of the UST case identified above, and recommends that this case be closed. The recommendation is based upon the facts and circumstances of this particular UST case. A UST Case Closure Review Summary Report has been prepared for the case identified above and the bases for determining compliance with the Water Quality Control Policy for Low-Threat Underground Storage Tank Case Closures (Low-Threat Closure Policy or Policy) are explained in the Case Closure Review Summary Report.

A. Low-Threat Closure Policy

In State Water Board Resolution No. 2012-0016, the State Water Board adopted the Low Threat Closure Policy. The Policy became effective on August 17, 2012. The Policy establishes consistent statewide case closure criteria for certain low-threat petroleum UST sites. In the absence of unique attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents, cases that meet the general and media-specific criteria in the Low-Threat Closure Policy pose a low threat to human health, safety and the environment and are appropriate for closure under Health and Safety Code section 25296.10. The Policy provides that if a regulatory agency determines that a case meets the general and media-specific criteria of the Policy, then the regulatory agency shall notify responsible parties and other specified interested persons that the case is eligible for case closure. Unless the regulatory agency revises its determination based on comments received on the proposed case closure, the Policy provides that the agency shall issue a closure letter as specified in Health and Safety Code section 25296.10. The closure letter may only be issued after the expiration of the 60-day comment period, proper destruction or maintenance of monitoring wells or borings, and removal of waste associated with investigation and remediation of the site.

Health and Safety Code section 25299.57, subdivision (l)(1) provides that claims for reimbursement of corrective action costs that are received by the Fund more than 365 days after the date of a closure letter or a Letter of Commitment, whichever occurs later, shall not be reimbursed unless specified conditions are satisfied. A Letter of Commitment has already been issued on the claim subject to this order and the respective Fund claimant, so the 365-day timeframe for the submittal of claims for corrective action costs will start upon the issuance of the closure letter.

II. FINDINGS

Based upon the UST Case Closure Review Summary Report prepared for the case attached hereto, the State Water Board finds that corrective action taken to address the unauthorized release of petroleum at the UST release site identified as:

Claim No. 6627
Unocal #5484

ensures protection of human health, safety and the environment and is consistent with Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations, the Low-Threat Closure Policy and other applicable water quality control policies.

The unauthorized release from the UST consisted only of petroleum. This order directs closure for the petroleum UST case at the site.³

Pursuant to the Low-Threat Closure Policy, notification has been provided to all entities that are required to receive notice of the proposed case closure, a 60-day comment period has been provided to notified parties, and any comments received have been considered by the Board in determining that the case should be closed.

Pursuant to section 21080.5 of the Public Resources Code, environmental impacts associated with the adoption of this Order were analyzed in the substitute environmental document (SED) the State Water Board approved on May 1, 2012. The SED concludes that all environmental effects of adopting and implementing the Low threat Closure Policy are less than significant, and environmental impacts as a result of complying with the Policy are no different from the impacts that are reasonably foreseen as a result of the Policy itself. A Notice of Decision was filed August 17, 2012. No new environmental impacts or any additional reasonably foreseeable impacts beyond those that were not addressed in the SED will result from adopting this Order.

The UST case identified above may be the subject of orders issued by the Regional Water Quality Control Board (Regional Water Board) pursuant to Division 7 of the Water Code. Any orders that have been issued by the Regional Water Board pursuant to Division 7 of the Water Code, or directives issued by a Local Oversight Program agency for this case should be rescinded to the extent they are inconsistent with this Order.

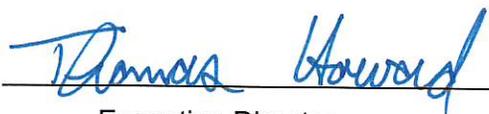
³ This order addresses only the petroleum UST case for the site. This order does not affect any order or directive requiring corrective action for non-petroleum contamination, if non-petroleum contamination is present.

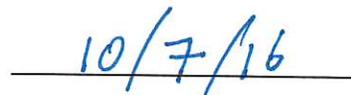
III. ORDER

IT IS THEREFORE ORDERED that:

- A. The UST case identified in Section II of this Order, meeting the general and media-specific criteria established in the Low-Threat Closure Policy, be closed in accordance with the following conditions and after the following actions are complete. Prior to the issuance of a closure letter, the Fund claimant is ordered to:
1. Properly destroy monitoring wells and borings unless the owner of real property on which the well or boring is located certifies that the wells or borings will be maintained in accordance with local or state requirements;
 2. Properly remove from the site and manage all waste piles, drums, debris, and other investigation and remediation derived materials in accordance with local or state requirements; and
 3. Within six months of the date of this Order, submit documentation to the regulatory agency overseeing the UST case identified on page 1 of this Order that the tasks in subparagraphs (1) and (2) have been completed.
- B. The tasks in subparagraphs (1) and (2) of paragraph (A) are ordered pursuant to Health and Safety Code section 25296.10 and failure to comply with these requirements may result in the imposition of civil penalties pursuant to Health and Safety Code section 25299, subdivision (d)(1). Penalties may be imposed administratively by the State Water Board or Regional Water Board.
- C. Within 30 days of receipt of proper documentation from the Fund claimant that requirements in subparagraphs (1) and (2) of paragraph (A) are complete, the regulatory agency that is responsible for oversight of the UST case identified in Section II of this Order shall notify the State Water Board that the tasks have been satisfactorily completed.

- D. Within 30 days of notification from the regulatory agency that the tasks are complete pursuant to paragraph (C), the Deputy Director of the Division of Financial Assistance shall issue a closure letter consistent with Health and Safety Code section 25296.10, subdivision (g) and upload the closure letter and UST Case Closure Review Summary Report to GeoTracker.
- E. As specified in Health and Safety Code section 25299.39.2, subdivision (a) (2), corrective action costs incurred after a recommendation of closure shall be limited to \$10,000 per year unless the Board or its delegated representative agrees that corrective action in excess of that amount is necessary to meet closure requirements, or additional corrective actions are necessary pursuant to section 25296.10, subdivisions (a) and (b). Pursuant to section 25299.57, subdivision (l) (1), and except in specified circumstances, all claims for reimbursement of corrective action costs must be received by the Fund within 365 days of issuance of the closure letter in order for the costs to be considered.
- F. Any Regional Water Board or Local Oversight Program Agency directive or order that directs corrective action or other action inconsistent with case closure for the UST case identified in Section II is rescinded, but only to the extent the Regional Water Board order or Local Oversight Program Agency directive is inconsistent with this Order.


Executive Director


Date

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Agency Name: Alameda County Environmental Health Department (County)	Address: 1131 Harbor Bay Parkway Alameda, CA 94502
Agency Caseworker: Keith Nowell	Case No.: RO0000352

Case Information

USTCF Claim No.: 6627	GeoTracker Global ID: T0600101453
Site Name: Unocal #5484	Site Address: 18950 Lake Chabot Road Castro Valley, CA 94546
Responsible Party 1: Unocal Attn: Bob Boust	Address: PO Box 5155 San Ramon, CA 94583
Responsible Party 2: Conoco Phillips Attn: Terry Grayson	Address: 76 Broadway Street Sacramento, CA 95818
Responsible Party 3: Shukri Noor	Address: Private Address
Responsible Party 4: Abdi Fugfugosh	Address: Private Address
USTCF Expenditures to Date: \$0	Number of Years Case Open: 25

To view all public documents for this case available on GeoTracker use the following URL:
http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101453

Summary

The Low-Threat Underground Storage Tank (UST) Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy. This case meets all of the required criteria of the Policy. Highlights of the case follow:

This Site is an active commercial petroleum fueling facility. An unauthorized release was reported in June 1989 following the removal of three USTs (two gasoline, one waste oil). Approximately 1,800 cubic yards of impacted soil were excavated and disposed offsite in 1989. No other active remediation has been conducted. Since 1988, nine groundwater monitoring wells have been installed and monitored; five wells have been abandoned. According to groundwater data, water quality objectives have been achieved or nearly achieved for all constituents except benzene.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells or surface water bodies within 250 feet of the defined plume boundary. No other water supply wells have been identified within 250 feet of the defined plume boundary in files reviewed. The unauthorized release is located within the service area of a public water system, as defined in the Policy. The affected shallow groundwater is not currently being used as a source of drinking water, and it is highly unlikely

that the affected shallow groundwater will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of the affected shallow groundwater are not threatened, and it is highly unlikely that they will be, considering these factors in the context of the site setting. Remaining petroleum hydrocarbon constituents are limited and stable, and concentrations are decreasing. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- General Criteria: The case meets all eight Policy general criteria.
- Groundwater Specific Criteria: The case meets Policy Criterion 1 by Class 1. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product. The nearest water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Vapor Intrusion to Indoor Air: Onsite, the case meets the Policy Exclusion for Active Station. Soil vapor evaluation is not required because the Site is an active commercial petroleum fueling facility and the release characteristics do not pose an unacceptable health risk. Offsite, the case meets Policy Criterion 2a by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 micrograms per liter ($\mu\text{g/L}$). The minimum depth to groundwater is greater than 5 feet, overlain by soil containing less than 100 milligrams per kilogram (mg/kg) of TPH.
- Direct Contact and Outdoor Air Exposure: The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 for Commercial/Industrial use, and the concentration limits for a Utility Worker are not exceeded.

Objections to Closure and Responses

According to the Path to Closure page in GeoTracker, finalized on June 27, 2014, the County objects to UST case closure because:

- Inadequate conceptual site model.
RESPONSE: Adequate data is available in GeoTracker to develop a conceptual site model as defined by the Policy.
- The case does not meet Policy groundwater criteria.
RESPONSE: The case meets Policy Criterion 1 by Class 1. In addition, a September 2014 report demonstrated the case meets Policy criteria for vapor intrusion to indoor air, direct contact and outdoor air exposure risk. Historically, diesel concentrations in groundwater were low and did not pose significant risk to human health and the environment.

Determination

Based on the review performed in accordance with Health & Safety Code Section 25299.39.2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose a significant risk to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board is conducting public notification as required by the Policy.

Unocal #5484
18950 Lake Chabot Road, Castro Valley
Claim No: 6627

October 2014

Alameda County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

Lisa Babcock, P.G. 3939, C.E.G. 1235

11/19/14

Date

Prepared by: Kirk Larson, P.G.

Attachment 2
Alameda County Public Works
Agency Well Destruction Permits



Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/09/2017 By jamesy

Permit Numbers: W2017-0219 to W2017-0222
Permits Valid from 03/27/2017 to 03/29/2017

Application Id: 1488995842990
Site Location: 18950 Lake Chabot Road
Castro Valley, CA 94546-2932 / Applicant intends to destroy the (4) gw monitoring wells associated with this site.

City of Project Site:Castro Valley

Project Start Date: 03/27/2017
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Completion Date:03/29/2017

Applicant: Arcadis - Jason Little
1100 Olive Way suite 800, seattle, WA 98101
Property Owner: Abdi H. & Shukri Fugfugosh & Noor
18950 Lake Chabot Road, Castro Valley, CA 94546
Client: Jason Little
1100 Olive Way STE 800, seattle, WA 98101

Phone: 206-992-7735

Phone: --

Phone: 206-992-7735

Receipt Number: WR2017-0106	Total Due:	\$1588.00
Payer Name : Jason Little	Total Amount Paid:	\$1588.00
	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 4 Wells
Driller: Cascade Drilling - Lic #: 938110 - Method: press

Work Total: \$1588.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2017-0219	03/09/2017	06/25/2017	MW-2	8.00 in.	2.00 in.	2.50 ft	19.50 ft			
W2017-0220	03/09/2017	06/25/2017	MW-5	10.00 in.	4.00 in.	4.00 ft	24.00 ft			
W2017-0221	03/09/2017	06/25/2017	MW-6	10.00 in.	4.00 in.	4.50 ft	29.00 ft			
W2017-0222	03/09/2017	06/25/2017	MW-7	9.00 in.	2.00 in.	4.00 ft	19.80 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755

Alameda County Public Works Agency - Water Resources Well Permit

(Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 30 days. Include permit number and site map.

4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

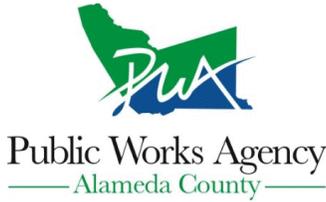
After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

9. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

10. Remove the Christy box or similar structure. Tremie Grout with Cement (More than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/05/2017 By jamesy

Permit Numbers: W2017-0329
Permits Valid from 04/07/2017 to 04/07/2017

Application Id: 1491414395720 **City of Project Site:** Castro Valley
Site Location: 18950 Lake Chabot Road, Castro Valley, CA. Destroy two soil vapor probes SV-1 to 6.5 ft and SV-2 to 5 ft.

Project Start Date: 04/07/2017 **Completion Date:** 04/07/2017
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Applicant: Arcadis - Jason Little **Phone:** 206-726-4720
1100 Olive Way suite 800, seattle, WA 98101

Property Owner: Abdi H. & Shukri Fugfugosh & Noor **Phone:** 916-919-9210
18950 Lake Chabot Road, Castro Valley, CA 94546

Client: Sam Miles **Phone:** 206-726-4720
samuel.miles@arcadis.com, Seattle, WA 98101

	Total Due:	\$265.00
Receipt Number: WR2017-0178	Total Amount Paid:	\$265.00
Payer Name : Jason Little	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Remediation Well Destruction-Vapor Remediation Well - 2 Wells
Driller: Cascade Drilling - Lic #: 913194 - Method: Hand

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2017-0329	04/05/2017	07/06/2017	SV-1	3.00 in.	0.38 in.	3.50 ft	6.50 ft	Sv-1	W2014-0764	
W2017-0329	04/05/2017	07/06/2017	SV-2	3.00 in.	0.38 in.	3.50 ft	5.00 ft	SV-2	W2014-0764	

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 30 days. Include permit number and site map.
4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

Alameda County Public Works Agency - Water Resources Well Permit

5. Remove the Christy box or similar structure. Destroy well(s) by overdrilling the upper 5ft. below ground surface (bgs) and then tremie grouting with neat cement. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil. After the seal has set, backfill the remaining hole by approved encroachment permit concrete material and asphalt material by Caltrans Spec or County/City Codes.
 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
 7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
-

Attachment 3
Cascade Drilling Well Completion
Reports



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

**STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)**

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Attachment 4
Waste Manifests



47196-001

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number N/A

2. Page 1 of 1

3. Emergency Response Phone (800) 424-9300

4. Waste Tracking Number 280394-001

5. Generator's Name and Mailing Address
Chevron Environmental Management Co.
c/o Chevron Products Company Waste Desk
P.O. Box 6004
San Ramon, CA 94583

(877) 386-6044

Generator's Site Address (if different than mailing address)
Former Unocal 351812
18950 Lake Chabot Rd.
Castro Valley, CA 94546

6. Transporter 1 Company Name
BELSHIRE

U.S. EPA ID Number
CAR000183913

7. Transporter 2 Company Name
Belshire

U.S. EPA ID Number
CAR000183913

8. Designated Facility Name and Site Address
Soil Safe
12328 Hibiscus Ave
Adelanto, CA 92301

(800) 862-8001

U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non DOT Regulated Material (Soil contaminated with petroleum products, non hazardous)

001

DM

200

P

38840

2. 38000

3. 640

4. STA# 132030 .32

13. Special Handling Instructions and Additional Information

Bulked in BESI yard 4/13/17

BESI:280394

ERG: N/A

To be bulked in BESI yard

SITE ID: 351812

WEAR LEVEL D PPE & SPLASH PROTECTION (IF APPLICABLE)

PROFILE # 47196

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Larry Moothart of BESI on behalf of generator

Month Day Year

04 04 17

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Kingreen

Kingreen

Month Day Year

04 04 17

Transporter 2 Printed/Typed Name

Signature

Frank Sulzard

Month Day Year

04 18 17

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

SOI KOUANSAL

Month Day Year

4 18 17

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

47196-002

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number N/A 2. Page 1 of 1 3. Emergency Response Phone (800) 424-9300 4. Waste Tracking Number 281132-001

5. Generator's Name and Mailing Address: Chevron Environmental Management Co. o/o Chevron Products Company Waste Desk P.O. Box 8004 San Ramon, CA 94583 Generator's Phone: (877) 388-8044 Generator's Site Address (if different than mailing address): Former Unocal 351812 18950 Lake Chabot Rd. Castro Valley, CA 94546

6. Transporter 1 Company Name: BELSHIRE U.S. EPA ID Number: CAR000183813

7. Transporter 2 Company Name: Belshire U.S. EPA ID Number: CAR000183913

8. Designated Facility Name and Site Address: Soil Safe 12328 Hibiscus Ave Adelanto, CA 92301 Facility's Phone: (800) 882-8001 U.S. EPA ID Number:

Table with 6 columns: 9. Waste Shipping Name and Description, 10. Containers (No., Type), 11. Total Quantity, 12. Unit Wt./Vol. Rows include: 1. Non DOT Regulated Material (Soil contaminated with petroleum products, non hazardous) 001 DM 150 P 38760; 2. 38000; 3. 560; 4. ST# 132360 28

13. Special Handling Instructions and Additional Information: Bulked in BESI yard 5/29/17 BESI:281132 ERG: N/A To be bulked in BESI yard SITE ID: 351812 WEAR LEVEL D PPE & SPLASH PROTECTION (IF APPLICABLE) PROFILE #: 47196

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Generator's/Offorer's Printed/Typed Name: Larry Moothart of BESI on behalf of generator Signature: [Signature] Month: 04 Day: 25 Year: 17

15. International Shipments: [] Import to U.S. [] Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Ringreen Signature: [Signature] Month: 04 Day: 25 Year: 17

Transporter 2 Printed/Typed Name: Jayson Johnson Signature: [Signature] Month: 5 Day: 17 Year: 17

17. Discrepancy: 17a. Discrepancy Indication Space [] Quantity [] Type [] Residue [] Partial Rejection [] Full Rejection Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator, Certification of receipt of materials covered by the manifest except as noted in Item 17a: Printed/Typed Name: [Signature] Signature: [Signature] Month: 5 Day: 9 Year: 17

GENERATOR INT'L TRANSPORTER DESIGNATED FACILITY